

Patent Idea

Individualized, Integrated, and Informative Internet Portal for Holistic Management of Patients with Implantable Devices

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Type of Invention: This is a software-based invention that uses Internet and World Wide Web technologies to present an individualized and integrated view of information associated with implantable device patients. Medical professionals require integrated data to manage their patients. Implantable devices can supply robust data associated with the patient, but it is only a part of the data required for assessing the state of the patient. This invention would provide a portal for a medical professional to assess not only the information supplied by an implantable device, but also integrate data from other data sources, including but not limited to: medication records and lab records. Integration technologies would need to be applied to integrate heterogeneous and dispersed databases. The portal would also be individualized for each user. For example, a specific doctor may prefer to have his/her portal arranged with the following key information: patient record's list prioritized for immediate attention, e-mail list, his/her schedule for the day, and important research findings in the news. This portal could also be made available for R&D personnel, sales personnel, executives, and even patients. Again, each user would only see the information that they had access privileges to see. The Link Information Network would serve as the infrastructure for this portal.

Problems that will be solved: As implantable devices move from therapeutic devices to integrated therapeutic and diagnostic devices, it will be imperative that medical professionals have a holistic view of the patient's health. An implantable device will not be able to supply all the necessary information required for optimum diagnostics, thus there is a need to provide an integrated and holistic view of the patient to the medical professional. Patient data will be encrypted to ensure patient privacy is preserved.

Use of this Invention: Customers, patients, and Medtronic employees with prerequisite access privileges.

Description of Invention.

- A. User logs into the Information Network.
- B. After user verification, a customized and dynamically generated web page is presented. Database integration activities are performed on the Information Network often linking many different database files.
 - See Attachment A for example web page portal for Physician.
 - See Attachment B for example web page portal for Research Engineer.
 - See Attachment C for example web page portal for Patient.